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*ATIC

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ATS RJ-1270

Sci - Phys, Chem
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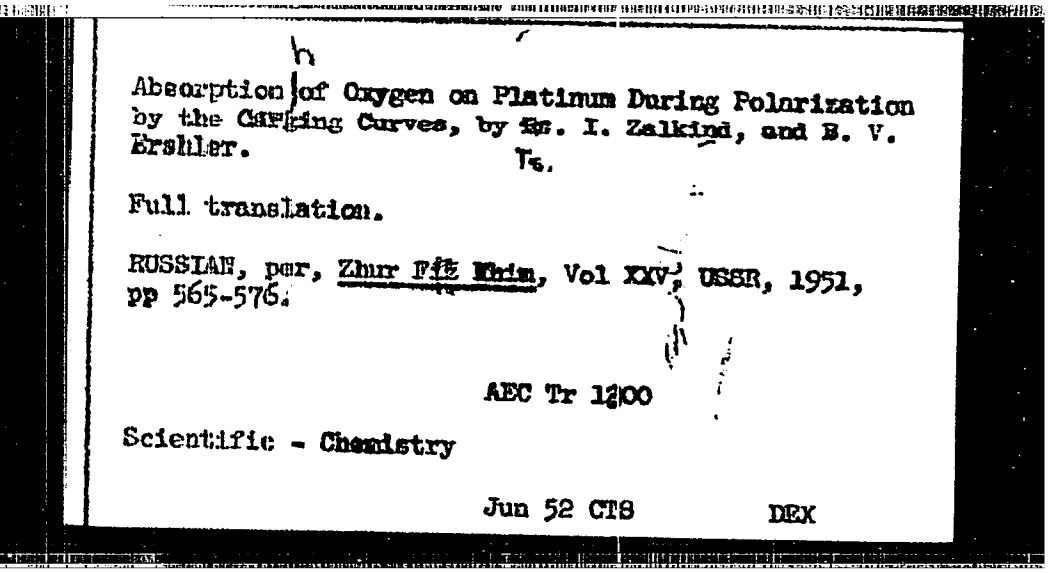

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AEC Tr 1200

Scientific - Chemistry

Jun 52 CTS DEX

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The Determination of the Effective Coefficients of the Vibrations of Polyatomic Molecules, I. Effective Coefficients for Methane, Deuteromethanes, Ethane and Deuteroethanes, by P. G. Maslov, S. A. Antipina

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AEc Tr 1612
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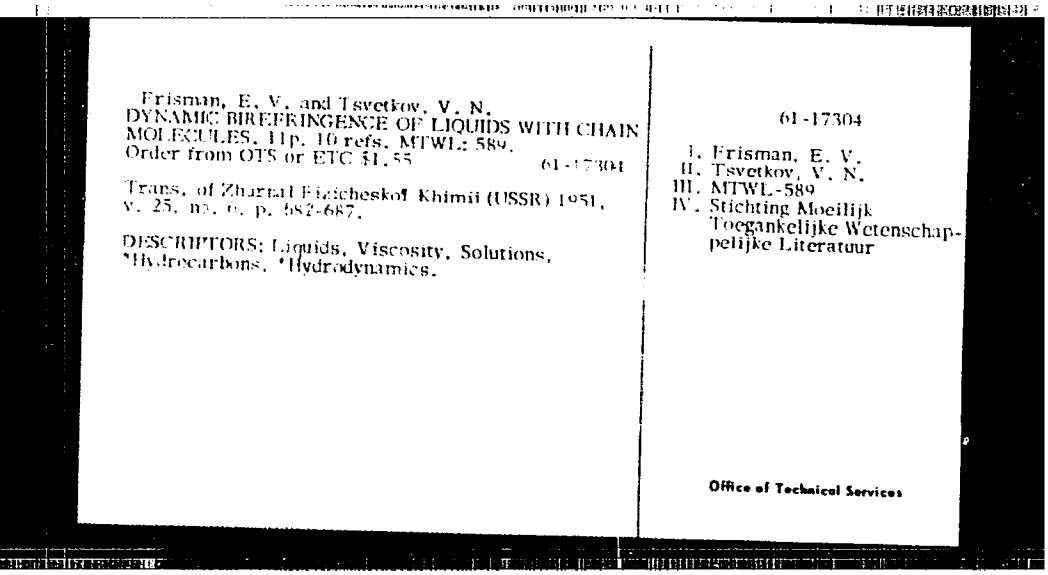

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DYNAMIC BIREFRINGENCE OF LIQUIDS WITH CHAIN MOLECULES. 11p. 10 refs. MTWL: 589.
Order from OTS or ETC $1.55 61-17304

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DESCRIPTORS: Liquids, Viscosity, Solutions, *Hydrocarbons, *Hydrodynamics.

61-17304

I. Frisman, E. V.
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III. MTWL-589
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AEC TR 1401

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Scientific - Chemistry, vibrations, molecules

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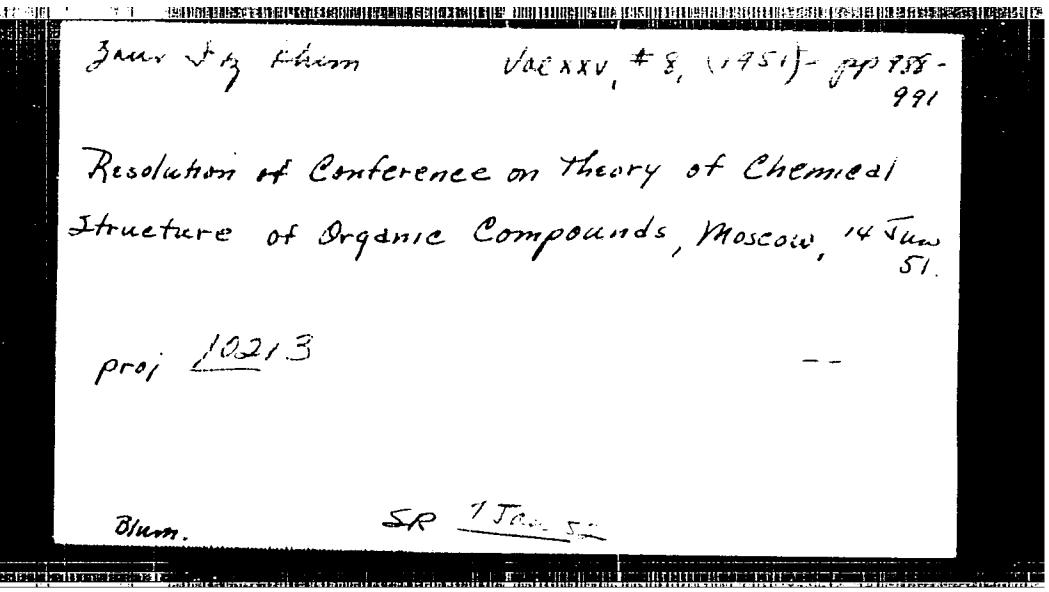

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NEW NIH No [redacted]
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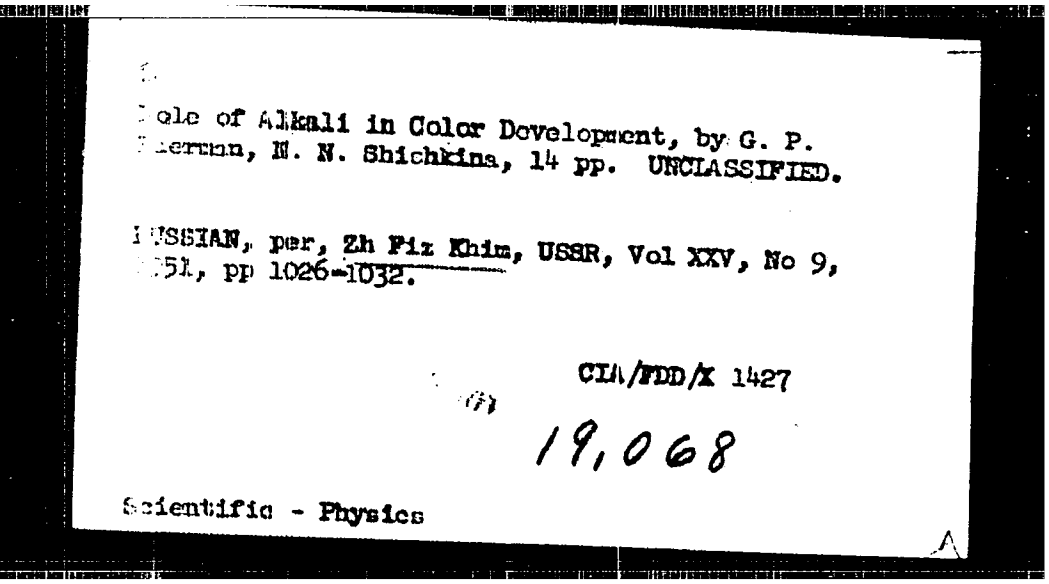

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SLA R-1762 5.2, 4 5-4

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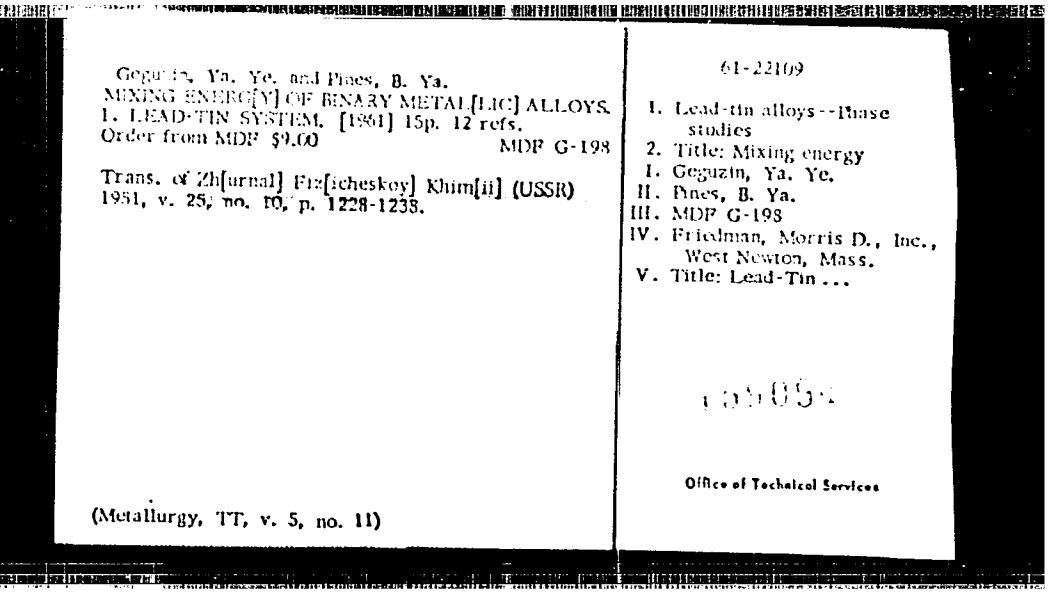

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Order from MDP $9.00 MDP G-198

Trans. of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR) 1951, v. 25, no. 10, p. 1228-1238.

(Metallurgy, TT, v. 5, no. 11)

61-22109

I. Lead-tin alloys--Phase studies
2. Title: Mixing energy
I. Geguzin, Ya. Ye.
II. Pines, B. Ya.
III. MDP G-198
IV. Friedman, Morris D., Inc., West Newton, Mass.
V. Title: Lead-Tin ...

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(Metallurgy, TT, v. 5, no. 11)

61-22110

1. Bismuth-cadmium alloys--Phase studies
2. Title: Mixing energy
I. Geguzin, Ya. Ye.
II. Pines, B. Ya.
III. MDP G-199
IV. Friedman, Morris D., Inc., West Newton, Mass.
V. Title: Bismuth-Cadmium ...

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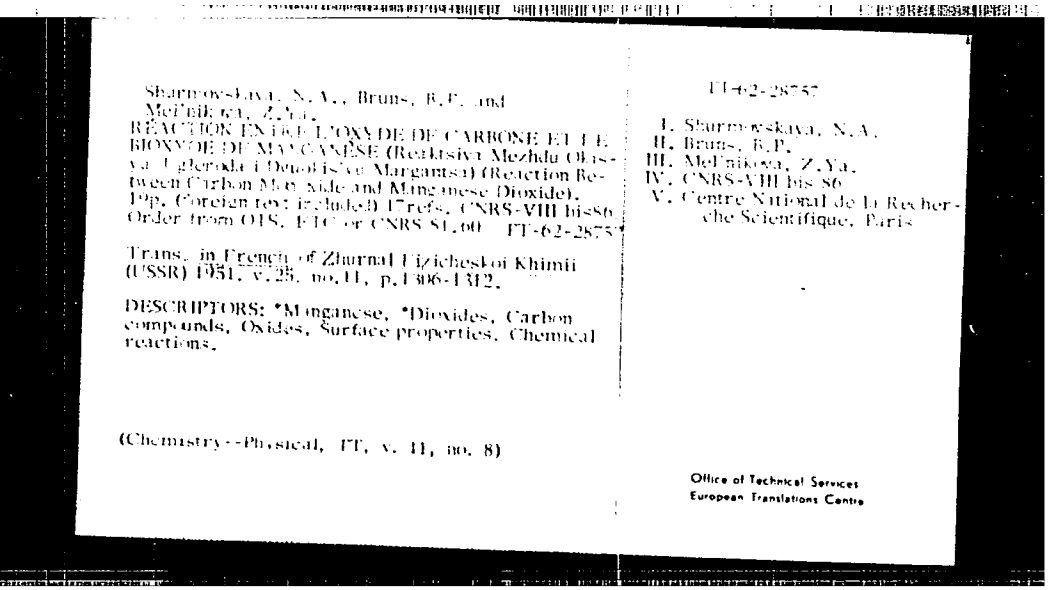

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19p. (Foreign text included) 17refs. CNRS-VIII bis86
Order from OTS, PTC or CNRS $1.00 FT-62-2875

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1951, v.25, no.11, p.1306-1312.

DESCRIPTORS: *Manganese, *Dioxides, Carbon compounds, Oxides, Surface properties, Chemical reactions.

(Chemistry--Physical, FT, v. 11, no. 8)

FT-62-2875

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CIA/FDD/X-1284

~~Bell Telephone Laboratory Tr No 1 (MW)~~

Scientific - Physics Aug 53 CTS/DEX

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SLA R-2830

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Jul 59

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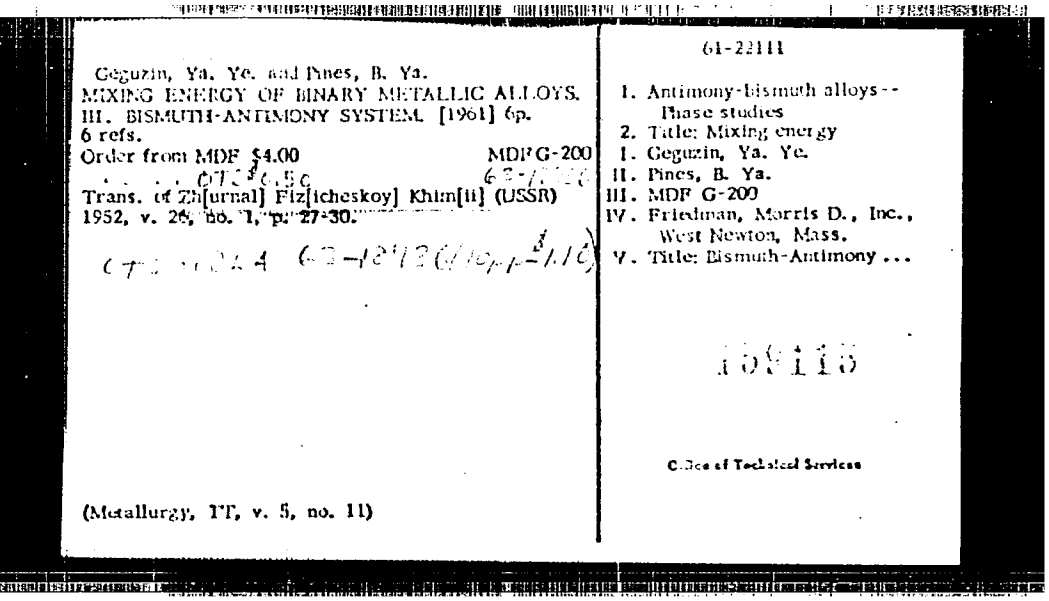

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6 refs.
Order from MDF $4.00 MDF G-200
Trans. of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR)
1952, v. 26, no. 1, p. 27-30.

(Metallurgy, TT, v. 5, no. 11)

61-22111

1. Antimony-bismuth alloys--Phase studies
2. Title: Mixing energy
I. Geguzin, Ya. Ye.
II. Pines, B. Ya.
III. MDF G-200
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V. Title: Bismuth-Antimony ...

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~~Bell Telephone Laboratory Tr A150 (MW)~~

CIA/FDD/X-1285

Scientific - Physics Aug 53 CTS/DEX

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The Mechanism of the Action of Optical Radiation of an Anodically Oxidized Lead Electrode, by V. I. Ginsburg, V. I. Veselovskiy, 15 pp.

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ATS-88L28R

Sci - Chem
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AEC Tr 1489
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Scientific - Chemistry, unimolecular, bimolecular

Jan 53 CTS/DEX

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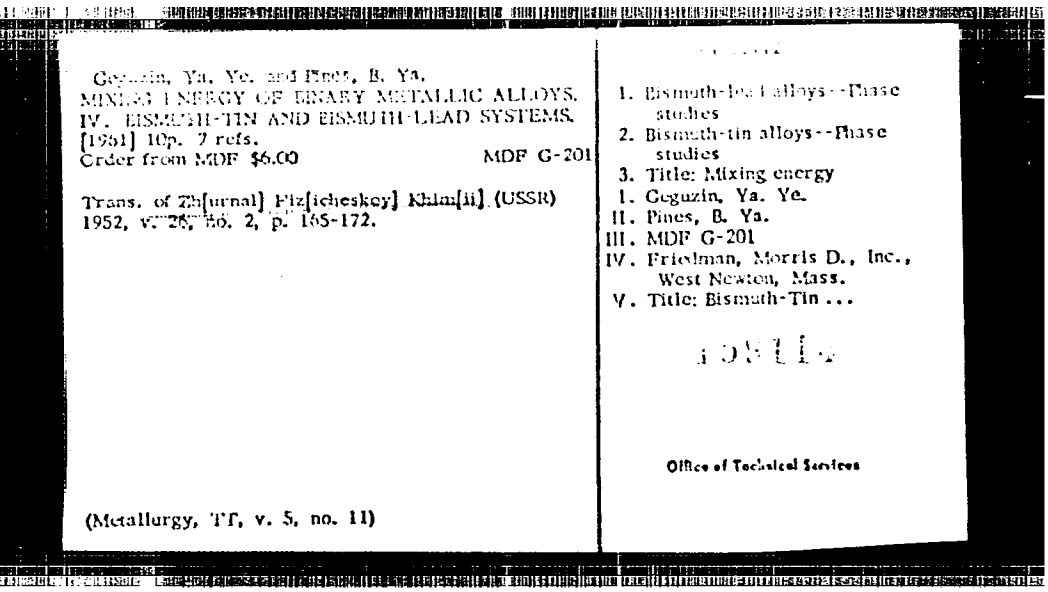

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Trans. of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR) 1952, v. 26, no. 2, p. 165-172.

(Metallurgy, TT, v. 5, no. 11)

1. Bismuth-lead alloys--Phase studies
2. Bismuth-tin alloys--Phase studies
3. Title: Mixing energy
I. Geguzin, Ya. Ye.
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Decomposition of Amalgams and Overvoltage of Hydrogen on Mercury in Alkaline Solutions, by O. L. Kaptsan, Z. A. Iofa.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, 1952, pp 201-210.

Aec Tr 1716

Scientific - Chemistry

CTS/NEX

7339

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

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Kinetics of the Cathodic Reduction of Oxygen, by
A. I. Krasil'shchikov,

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 2, 1952,
pp 216-223.

Sci Mus Lib Book 54/1374

Scientific - Chemistry

Aug 54 CTS

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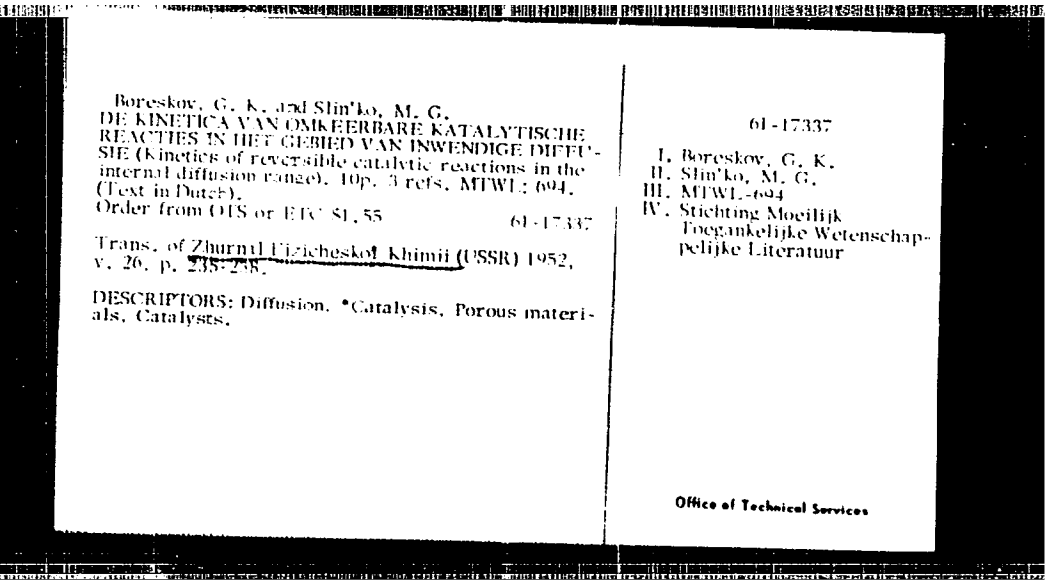

Boreskov, G. K. and Slin'ko, M. G.
DE KINETICA VAN OMKEERBARE KATALYTISCHE REACTIES IN HET GEBIED VAN INWENDIGE DIFFUSIE (Kinetics of reversible catalytic reactions in the internal diffusion range). 10p. 3 refs. MTWL: 694. (Text in Dutch).
Order from OTS or ITC $1.55 61-17337

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1952, v. 26, p. 235-238.

DESCRIPTORS: Diffusion. *Catalysis, Porous materials, Catalysts.

61-17337

I. Boreskov, G. K.
II. Slin'ko, M. G.
III. MTWL-694
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Adsorption of Mixtures of Gases. Part 1. Adsorption of Ethylene and Carbon Dioxide on Activated Carbon, by B. P. Berin, V. V. Serpinskiy.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, 1952, pp 253-269.

Assoc Tech Sv RJ-206
$24.95

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Scientific - Chemistry
CTS 73/Oct 1955

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

Reasons for the Formation of Zinc Sponge on the Cathode and Mechanism of Action of Impurities in Zincate Electrolytes, by N. T. Kudryavtsev.
RUSSIAN, per, Zhurnal Fizicheskoy Khimiy, Vol 26, No 2, 1952, pp 269-281.
Dept of Navy NIC 2838

Sci-Chem
June 69

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

Gogoberidze, D. B.
THEORY OF THE PENDULUM METHOD FOR MEASURING HARDNESS (K Teorii Mayatnikovogo Metoda Izmereniya Tverdosti). [1962] [14]p. (foreign text included) 17 refs.
Order from OTS or SLA $1.60 62-14559

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1952, v. 26, no. 2, p. 310-314.

DESCRIPTORS: *Hardness, Measurement, Theory. Test equipment, *Instrumentation.

It is shown that the values of hardness, as measured according to P. A. Rebinder and V. D. Kuznetsov, are not constant for a given material, but do change depending on the criterion that is applied for the estimate of hardness as well as on the weight of pendulum and the shape of its supports. Hardness, according to V. D. Kuznetsov, and hardness, according to
(Physics, TT, v. 8, no. 10) (over)

62-14559

1. Title: Pendulum method
I. Gogoberidze, D. B.

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On Protective Films of Oxide and Hydroxide on Magnesium, by N. K. Shishakov, 10 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, 1952, pp 357-363.

AEC Tr 2490

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8c1 - Minerals/Metals

Jul 1956

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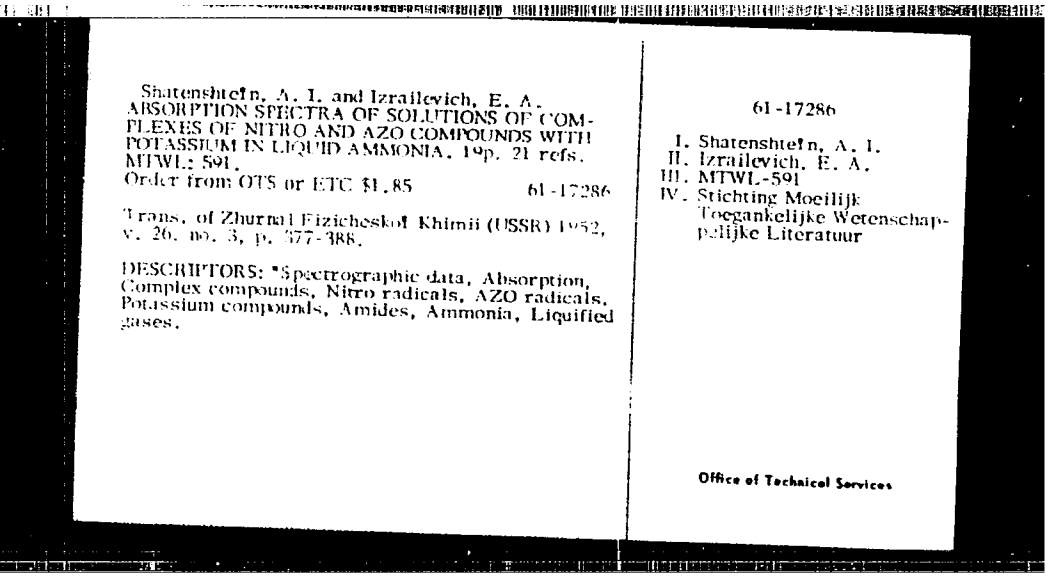

Shatenshtein, A. I. and Izrailevich, E. A.
ABSORPTION SPECTRA OF SOLUTIONS OF COMPLEXES OF NITRO AND AZO COMPOUNDS WITH POTASSIUM IN LIQUID AMMONIA. 19p. 21 refs.
MTWL: 591.
Order from OTS or ETC $1.85 61-17286

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1952, v. 26, no. 3, p. 377-388.

DESCRIPTORS: *Spectrographic data, Absorption, Complex compounds, Nitro radicals, AZO radicals, Potassium compounds, Amides, Ammonia, Liquified gases.

61-17286

I. Shatenshtein, A. I.
II. Izrailevich, E. A.
III. MTWL-591
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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The Nature of the Chemical Manifestation of the Hydrogen Bond in Hydroperoxides of Aliphatic Acetyls, by D. G. Knorre, N. M. Emanuel', 27 pp.

RUSSIAN, mp per, Zhur Fiz Khim, Vol XXVI, No 3, 1952, pp 425-437.

Sci Tr Center RT-2665

28,986

Scientific - Chemistry
Dec 55 CTS/DEK

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

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Hydrogen Liquefier for the Scientific Research Institute, by M. P. Malkov, A. B. Fradkov.

RUSSIAN, per, Zhur Tekh Fiz, No 22, 1952, pp 436-445.

*ATIC

Sci - Chem

Apr 57 CTS

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On the Method of Calculating the Arrangement of Neighbors in Solutions, by V. A. Koshsurov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, 1952, pp 479-483.

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Photoelectrochemical Process in a Microheterogeneous Sensitizing System: Suspension of ZnO/Solution, by V. I. Veselovskiy, D. M. Shub, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, 1952, pp 509-519.

SLA 61-18286

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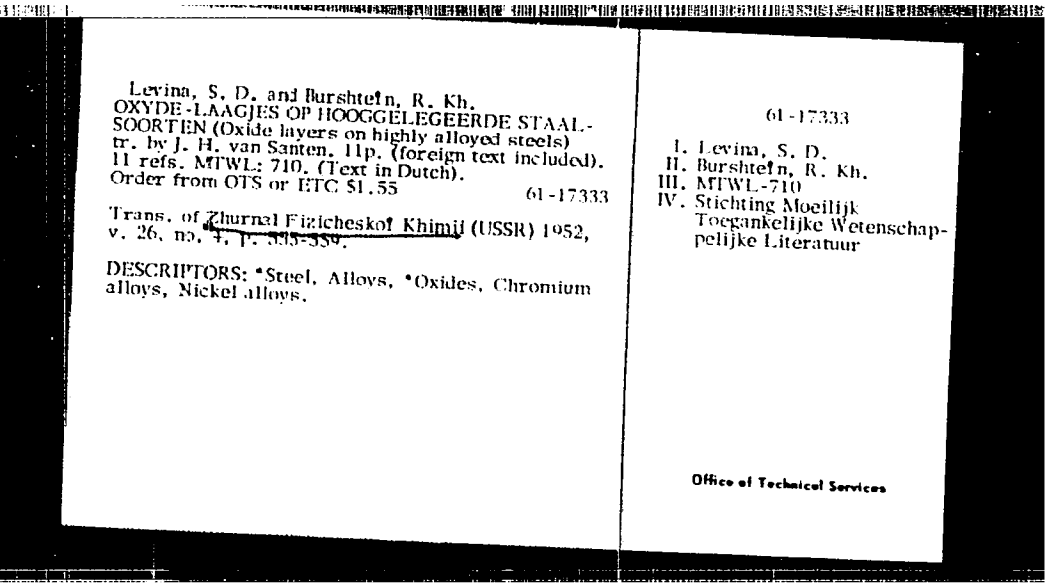

Levina, S. D. and Burshtein, R. Kh.
OXYDE-LAAGJES OP HOOGGELEGEERDE STAAL-SOORTEN (Oxide layers on highly alloyed steels) tr. by J. H. van Santen. 11p. (foreign text included). 11 refs. MTWL: 710. (Text in Dutch).
Order from OTS or ETC $1.55 61-17333

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1952, v. 26, no. 4, p. 553-559.

DESCRIPTORS: *Steel, Alloys, *Oxides, Chromium alloys, Nickel alloys.

61-17333

I. Levina, S. D.
II. Burshtein, R. Kh.
III. MTWL-710
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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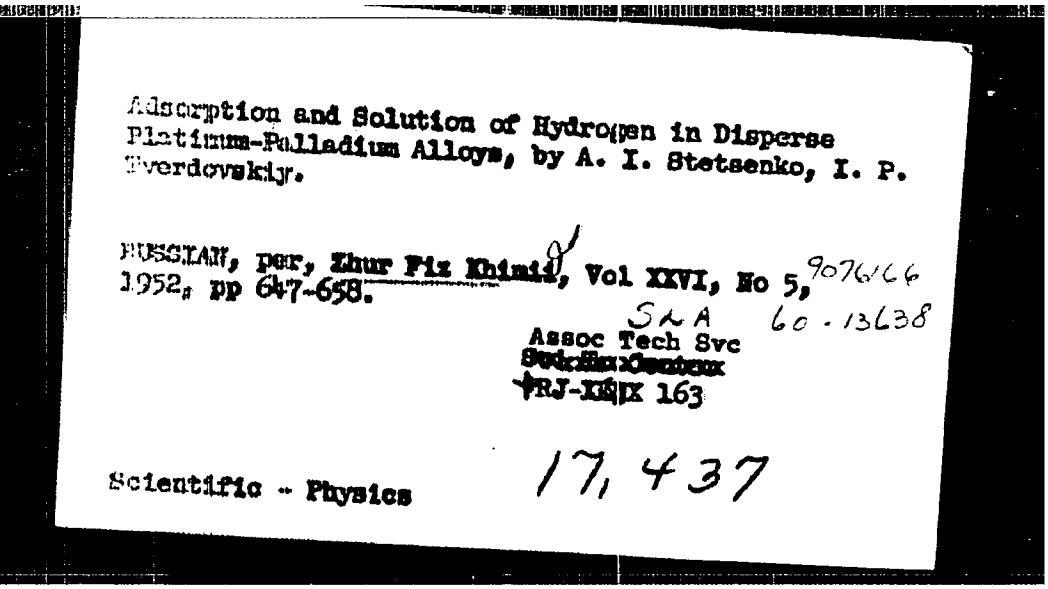

Adsorption and Solution of Hydrogen in Disperse Platinum-Palladium Alloys, by A. I. Stetsenko, I. P. Sverdovskiy.

RUSSIAN, per, Zhur Fiz Khimii, Vol XXVI, No 5, 1952, pp 647-658.

907666

SLA 60-13638

Assoc Tech Svc

RJ-XEROX 163

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Scientific - Physics

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The Kinetics of the Formation of Calcium Hydride, by V. A. Shushunov, A. I. Shafyev, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, 1952, pp 672-679.

AEC Tr 3220

Sci - Physics
Jun 58

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Structure of the Alpha-Modification of Lead Dioxide, by A. I. Zaslavskiy, S. S. Tolkachev. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 5, 1952, pp 743-752.

*NRL

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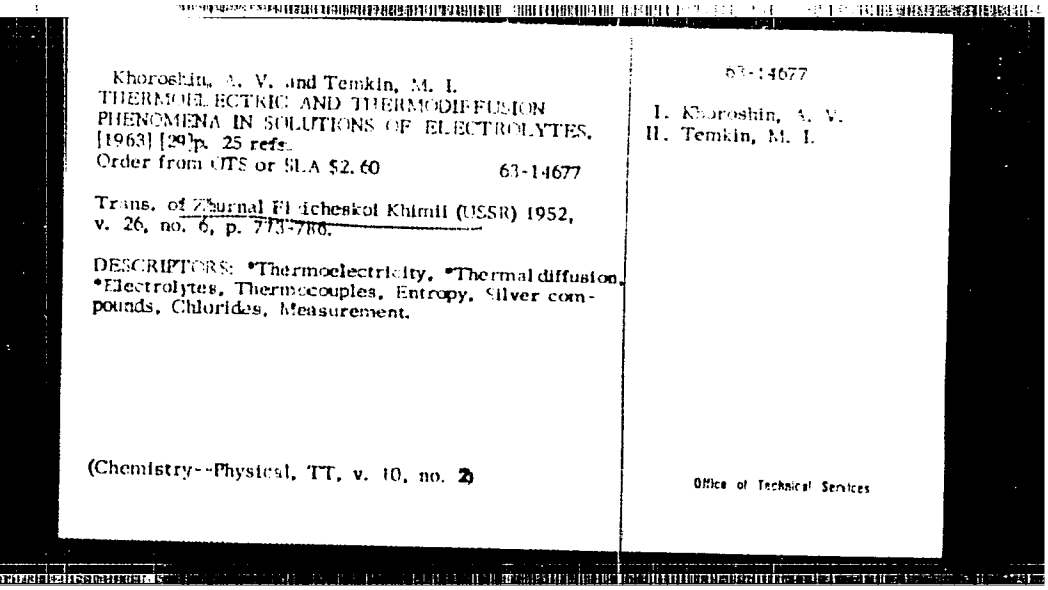

Khoroshin, A. V. and Temkin, M. I.
THERMOELECTRIC AND THERMODIFFUSION PHENOMENA IN SOLUTIONS OF ELECTROLYTES. [1963] [29]p. 25 refs.
Order from OTS or SLA $2.60 63-14677

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1952, v. 26, no. 6, p. 773-786.

DESCRIPTORS: *Thermoelectricity, *Thermal diffusion, *Electrolytes, Thermocouples, Entropy, Silver compounds, Chlorides, Measurement.

(Chemistry--Physical, TT, v. 10, no. 2)

63-14677

I. Khoroshin, A. V.
II. Temkin, M. I.

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RUSSIAN, per, Zhur Fiz Khim, 1952, Vol 26, No 6, pp 810-812.

Sci Mas Lib No 52/2938

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25 October 1952

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Retarding Action of Gaseous ReactionProducts on the Rate of Reduction of Manganese Oxides by Hydrogen and Carbon Monoxide, by G. I. Chufarov, B. D. Averbuch, E. P. Tatyevskaya, V. K. Antonov, 10 pp.

RUSSIAN, par, Zhur Fiz Khim, Vol XXVI, 1952, pp 834-841.

ABC NP 132
SLA R-5085

Sci - Chem

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OTS TT-62-28755

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The Kinetics of the Transformation of Polymorphous Modifications of Ammonium Nitrate. II., by B. V. Erofeyev, N. I. Mitskevich, 16 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, No 6, 1952, pp 848-861.

T. I. L. T 4308

Sci - Physics, Chemistry 39,864

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The Value of the Standard Potential of the Ni - Ni(OH)$_4$ Couple and the Properties of the Hydroperoxide of Nickel, by S. I. Sobol, 8 pp.

GERMAN, per, Zhur Fiz Khim, Vol XXVI, 1952, pp 862-865.

AEC Tr 2081.

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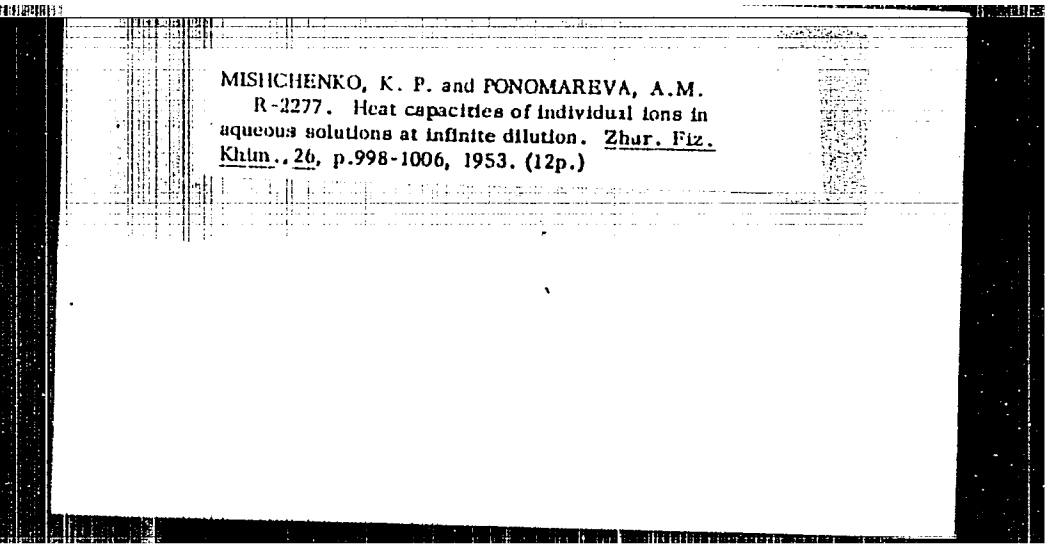

MISHCHENKO, K. P. and PONOMAREVA, A.M.
R-2277. Heat capacities of individual ions in aqueous solutions at infinite dilution. Zhur. Fiz. Khim., 26, p.998-1006, 1953. (12p.)

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On Quantum-mechanical Calculations of the Deviations From the Additive Scheme in Organic Chemistry, by N. D. Sokolov.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol XXVI, No 7, 1952, pp 1036-1039.

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Scientific - Chemistry

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S-5275 (DC-2964).

Absorption of Gases in the Presence of Surface-Active Agents. III. Mechanism of the Effect Exerted by Surface-Active Agents on the Rate of Absorption, by A. N. Ternovskaya, A. P. Belopol'skiy, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 8, 1952, pp 1090-1096.

JPRS-L-1835-D 95, 586

Sci - Chem - Physical Chem
Sep 59

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Phase Equilibrium Liquid-Steam in Certain Binary System Upon Lowered Pressures. By Yu. N. Sheinker, 18 pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, 1952, Vol 26, pp. 1103-1109.
ETC,69-29688

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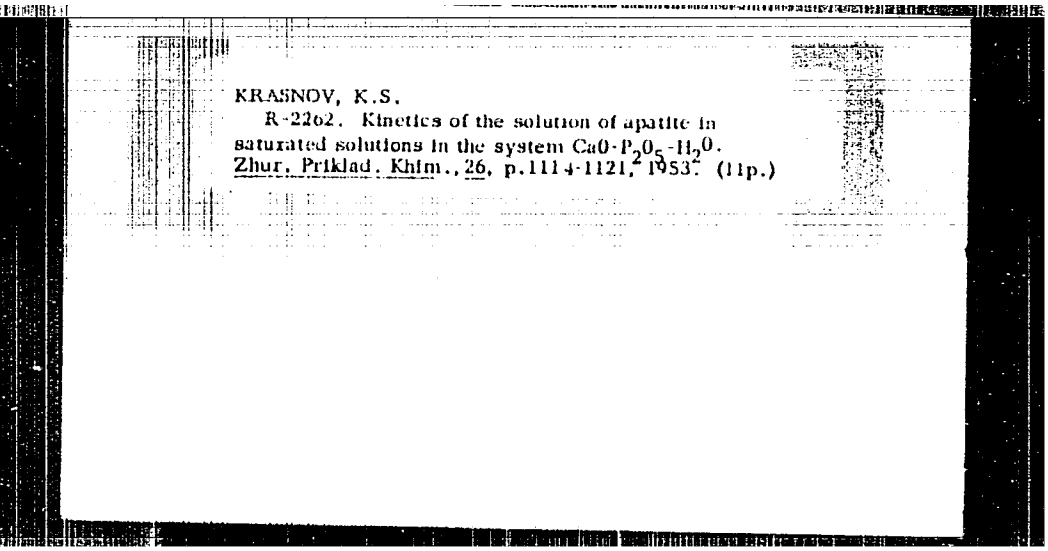

KRASNOV, K.S.

R-2262. Kinetics of the solution of apatite in saturated solutions in the system $CaO-P_2O_5-H_2O$. Zhur. Prikład. Khim., 26, p.1114-1121, 1953. (11p.)

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(FDD 21099)

Thermal and X-Ray Analysis of the System LiF - BeF_2,
by A. V. Nemelova, Ye. I. Yarembash, Yu. P. Sumanov,
37 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVI, No 9,
Moscow/Leningrad, 1952, pp 1244-1258.

S.L.A.R-570
Nov '57

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AEC 1838
17,248

3c1 - Chemistry

Jul 54 CTS

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Agency: Picatinny Arsenal
P.O. No. 90-69c

R-10,087-2
27 Jan 69

Title: Unknown. pp. 1259-1265.

Author: Eol;der, G.A., et al.

Source: Zhur. Fiz. Khim. Vol. 26, (1952).

Language: Russian.

8 pp

Special instruction: Please translate & type 1 cpy only.

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The Basic Characteristics of Generalized Critical Phenomena, by V. K. Semenchenko. USCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 9, 1952, pp 1337-1348.

DSIR LIJ RTS 1222

(27s. 6d.)

Sci - Phys
Dec 59

102, 519

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The Platinum Electrode. X. Analysis of Oxygen Adsorption on Smooth Platinum Using the Electrochemical Method, by A. D. Obrucheva.
RUSSIAN, per, Zhurnal Fiz Khim, Vol 26, No 10, 1952, pp 1448-1457.
NAV/NIC/Trans-2865-69

Sci-Phys
Sept 69

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Chemical Adsorption on Ionic Crystals, by
F. F. Volkenshtein,

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 10,
1952, pp 1462-1471.

Co-op Tr Sch No 101
12. 10s. (10s. 0d.)

Scientific - Chemistry

Feb 55 CTS

20,850

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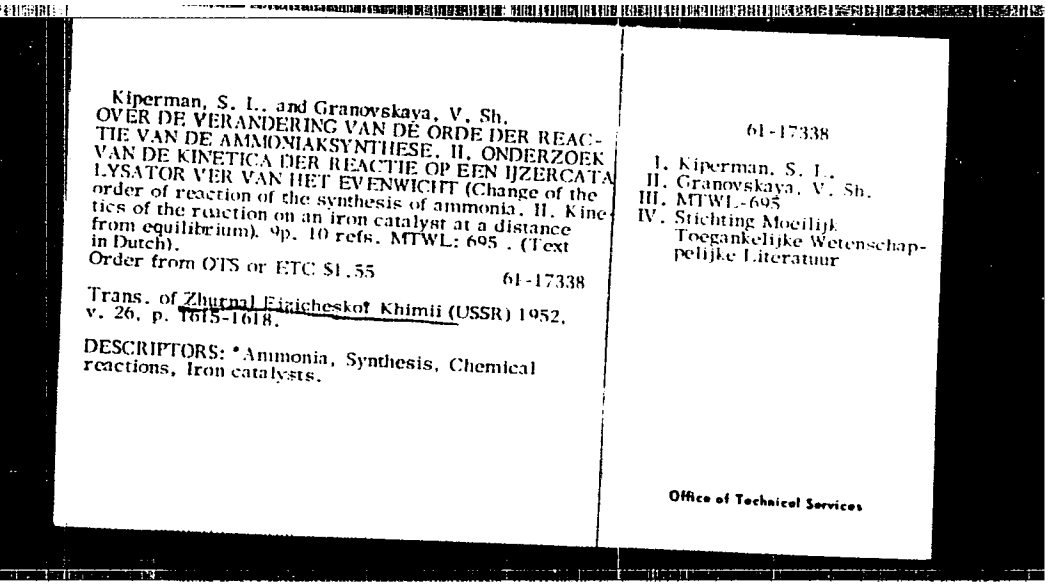

Kiperman, S. L., and Granovskaya, V. Sh.
OVER DE VERANDERING VAN DE ORDE DER REACTIE VAN DE AMMONIAKSYNTHESE. II. ONDERZOEK VAN DE KINETICA DER REACTIE OP EEN IJZERCATALYSATOR VER VAN HET EVENWICHT (Change of the order of reaction of the synthesis of ammonia. II. Kinetics of the reaction on an iron catalyst at a distance from equilibrium). 9p. 10 refs. MTWL: 695. (Text in Dutch).
Order from OTS or ETC $1.55 61-17338

Trans. of Zhurnal Fizicheskof Khimii (USSR) 1952, v. 26, p. 1615-1618.

DESCRIPTORS: *Ammonia, Synthesis, Chemical reactions, Iron catalysts.

61-17338

I. Kiperman, S. L.
II. Granovskaya, V. Sh.
III. MTWL-695
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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12 287

GE-1

MISHCHENKO K. P.

Solvatation of ions in electrolyte solutions. I. Chemical solvatation heat of individual ions and approximate calculation of solvatation energy

Solvatation von Ionen in Elektrolytlösungen. I. Chemische Solvatationswärme einzelner Ionen sowie angenäherte Berechnung der Solvatationsenergie

Zhur. Fiz. Khim., 26, No. 12, 1736-1759 (1952) - German

Euratom

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

Thermodynamics of the Solid-Phase Reactions in the System Calcium Oxide-Silica, by N. A. Landiya and O. P. Mchedlov-Petrosyan, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, 1952, pp 1785-1790.

SLA R-2278

K-H 37239(W)

72,055

Sci

Aug 58

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The Crystal Structure of Rhodanides, Complex Tetarhodanides of Zinc, Cadmium Mercury and Platinum, by Z. V. Zvonkova.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, No 12, 1952, pp 1798-1803.

NLL M. 4527

Sci - Chem

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Apr 62

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The Crystalline Structure of Thiocyanates: (7). The Crystalline Structure of complex Tetrathiocyanates of Platinum, by Z. V. Zvonkova. USCL

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116, 623

Sci - Chem

May 60

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An Adsorption Method for Measuring the Surface Area of Platinum in Platinized Silica Gels, by G. K. Boreskov, A. P. Karnaukhov.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, No 12, 1952, pp 1814-1823.

SLA-R-909
Assoc Tech Sv RJ-515
$13.85 ($3.70)

Sci - Physics; Chemistry 46,778
Apr 1957 CTS/dax

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910039-3

Venstrem, E.K. and Rehbinder, P.A.
ÉLÉVATION DE LA DÉFORMABILITÉ À L'ÉTIREMENT DES MÉTAUX PAR EFFET ÉLECTROCAPILLAIRE (Elektrokapillyarnyi Effekt Oblegcheniya Deformatsii Rastyazheniya Metallov) (The Electrocapillary Effect of Promoting the Extension Deformation of Metals). 20p. (foreign text included) 15refs. CNRS-XVII 607. Order from OTS, ETC or CNRS $0.80 TT-62-28592

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1952, v.26, no.12, p.1847-1853.

DESCRIPTORS: Metals, *Deformation, Electrical double layer, Electric potential, Electrolytes, Crystals, *Tin, *Lead.

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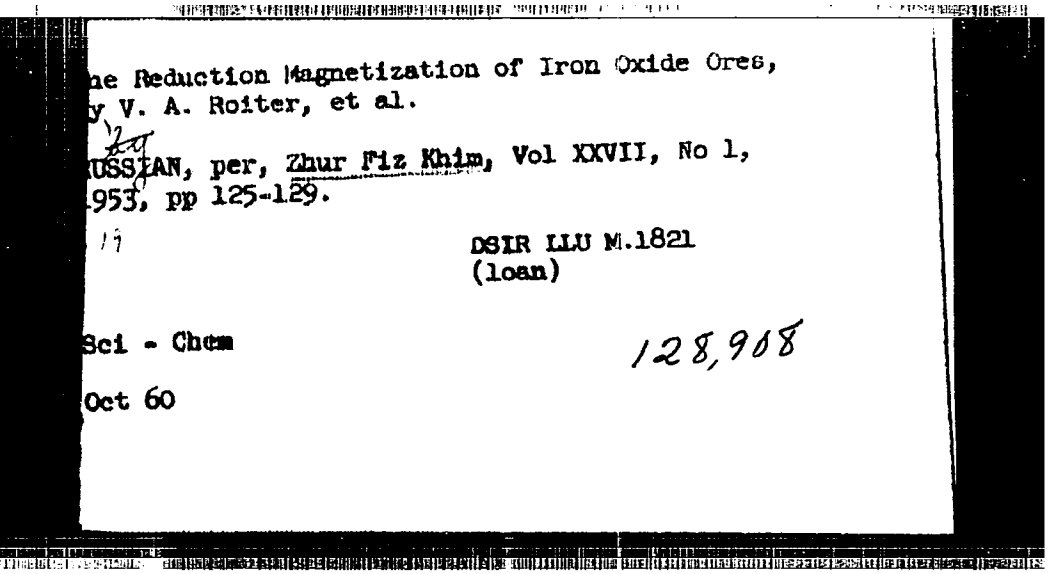

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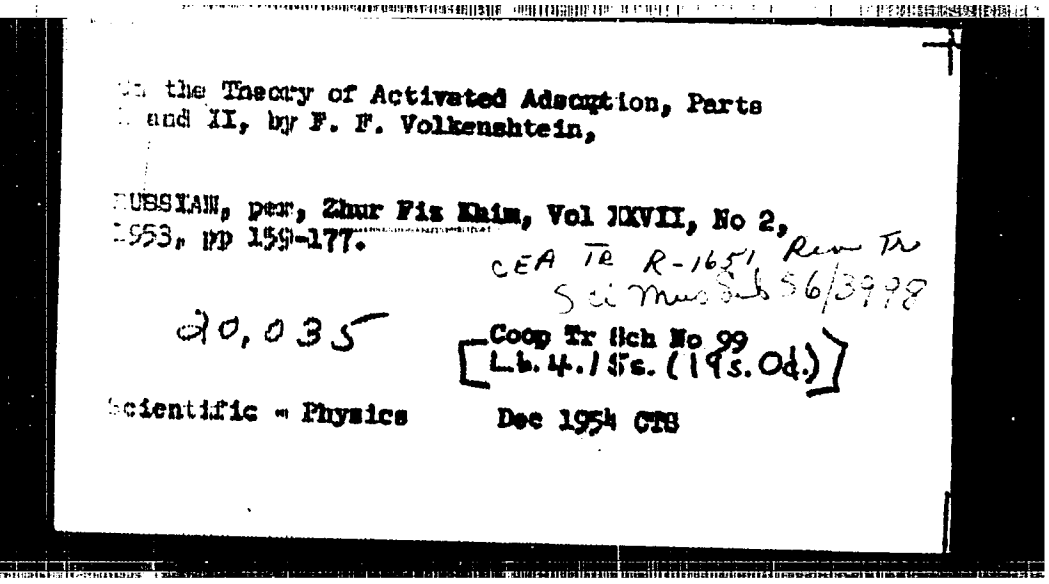

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